| 1 6,389,535.pn. USPAT; US-PGPUB  1 @ad<19991220 and 713/193.ccls. and cookie USPAT; US-PGPUB  9 @ad<19991220 and 713/193.ccls. and USPAT; US-PGPUB  ((webpage) web adj page) US-PGPUB  98 @ad<19991220 and 713/193.ccls. and USPAT; 200: US-PGPUB  password US-PGPUB  328 @ad<19991220 and encrypting same password US-PGPUB  33 @ad<19991220 and encrypting same password US-PGPUB  same first same second US-PGPUB  6 @ad<19991220 and encrypting same cookie USPAT; 200: US-PGPUB  9 @ad<19991220 and encrypting same cookie USPAT; 200: US-PGPUB  9 @ad<19991220 and (encrypt adj first adj USPAT; 200: US-PGPUB  9 @ad<19991220 and (encrypt adj first adj USPAT; 200: US-PGPUB   | e stamp<br>3/08/26<br>3/08/26<br>3/08/07<br>3/08/07<br>3/08/08<br>3/08/08 | 08:08<br>17:06<br>17:07<br>06:41<br>07:28 |
|--|---|---|
| 1  | 3/08/26<br>3/08/07<br>3/08/07<br>3/08/08                                  | 08:08<br>17:06<br>17:07<br>06:41<br>07:28 |
| - 9 @ad<19991220 and 713/193.ccls. and (US-PGPUB USPAT; (Webpage) web adj page) - 98 @ad<19991220 and 713/193.ccls. and USPAT; 2000 password - 328 @ad<19991220 and encrypting same password US-PGPUB US-PGPUB - 33 @ad<19991220 and encrypting same password US-PGPUB US-PGPUB - 6 @ad<19991220 and encrypting same password US-PGPUB - 6 @ad<19991220 and encrypting same cookie USPAT; 2000 US-PGPUB - 9 @ad<19991220 and encrypting same cookie USPAT; 2000 US-PGPUB - 9 @ad<19991220 and (encrypt adj first adj USPAT; 2000 US-PGPUB US- | 3/08/07<br>3/08/07<br>3/08/08<br>3/08/08                                  | 17:06<br>17:07<br>06:41<br>07:28          |
| - 9 @ad<19991220 and 713/193.ccls. and (webpage) web adj page) - 98 @ad<19991220 and 713/193.ccls. and USPAT; 2000 password - 328 @ad<19991220 and encrypting same password USPAT; 2000 US | 3/08/07<br>3/08/07<br>3/08/08<br>3/08/08                                  | 17:06<br>17:07<br>06:41<br>07:28          |
| - 9 @ad<19991220 and 713/193.ccls. and (webpage) web adj page) - 98 @ad<19991220 and 713/193.ccls. and USPAT; US-PGPUB - 328 @ad<19991220 and encrypting same password USPAT; US-PGPUB - 33 @ad<19991220 and encrypting same password USPAT; US-PGPUB - 6 @ad<19991220 and encrypting same cookie USPAT; US-PGPUB - 9 @ad<19991220 and encrypting same cookie USPAT; US-PGPUB - 9 @ad<19991220 and (encrypt adj first adj USPAT; key) - 323 @ad<19991220 and 713/193.ccls. USPAT; 2003   | 3/08/07<br>3/08/08<br>3/08/08   | 17:07<br>06:41<br>07:28                   |
| ((webpage) web adj page)  98 @ad<19991220 and 713/193.ccls. and USPAT; 2000 password  328 @ad<19991220 and encrypting same password USPAT; 2000 USPAT; | 3/08/07<br>3/08/08<br>3/08/08   | 17:07<br>06:41<br>07:28                   |
| - 98 @ad<19991220 and 713/193.ccls. and password   | 3/08/08   | 06:41<br>07:28                            |
| password   | 3/08/08   | 06:41<br>07:28                            |
| - 328 @ad<19991220 and encrypting same password USPAT; US-PGPUB - 33 @ad<19991220 and encrypting same password USPAT; US-PGPUB - 6 @ad<19991220 and encrypting same cookie USPAT; US-PGPUB - 9 @ad<19991220 and (encrypt adj first adj USPAT; US-PGPUB (USPAT; key) - 323 @ad<19991220 and 713/193.ccls. USPAT; 2003   | 3/08/08   | 07:28                                     |
| - 33 @ad<19991220 and encrypting same password US-PGPUB USPAT; 2000 same first same second US-PGPUB USPAT; 2000 us | 3/08/08   | 07:28                                     |
| - 33 @ad<19991220 and encrypting same password USPAT; 2000 same first same second USPAT; US-PGPUB USPAT; US-PGPUB USPAT; US-PGPUB USPAT; US-PGPUB USPAT; US-PGPUB USPAT; Ey) - 323 @ad<19991220 and (encrypt adj first adj USPAT; US-PGPUB USPAT; 2000 USPAT; US-PGPUB USPAT; 2000 USPAT;  |   |   |
| same first same second   |   |   |
| - 6 @ad<19991220 and encrypting same cookie USPAT; US-PGPUB - 9 @ad<19991220 and (encrypt adj first adj USPAT; US-PGPUB LOOK) key) US-PGPUB USPAT; 2003 233 @ad<19991220 and 713/193.ccls. USPAT; 2003   | 3/08/08   | 07:40                                     |
| US-PGPUB   US-PGPUB   USPAT; 2003   US-PGPUB   USPAT; 2003   US-PGPUB   USPAT; 2003   US-PGPUB   US-PGPUB   US-PGPUB   USPAT; 2003   USPAT;    | 3,00,00   | 1   |
| - 9 @ad<19991220 and (encrypt adj first adj USPAT; 2000 key) - 323 @ad<19991220 and 713/193.ccls. USPAT; 2000  |   |   |
| key)   | 3/08/08   | 07:44                                     |
| - 323 @ad<19991220 and 713/193.ccls. USPAT; 2003   | ,, ,,,,,,   |   |
|  | 3/08/08   | 07:51                                     |
|  | ,, , , , , , ,  |   |
|  | 3/08/19   | 09:22                                     |
| specific adj machine US-PGPUB  | ,   |   |
|  | 3/08/08   | 08:28                                     |
| adj provider US-PGPUB  | ., 55, 66   |   |
|  | 3/08/20   | 11:21                                     |
| US-PGPUB   | ., 55, 20   |   |
|  | 3/08/08   | 08:52                                     |
| US-PGPUB   | ., 55, 55   | -0.52                                     |
|  | 3/08/08   | 08:57                                     |
| (second adj key)  US-PGPUB   | ., 55, 56   | 20.57                                     |
|  | 3/08/08   | 08.57                                     |
| (second adj key)) and encrypt\$4 US-PGPUB  | ,, 00, 00   |   |
|  | 3/08/08   | 09.39                                     |
| (second adj key)) and encrypt\$4) and US-PGPUB   | ,, 00, 00   | 03.33                                     |
| password   |   |   |
|  | 3/08/08   | 09:49                                     |
| US-PGPUB   | .,  |   |
|  | 3/08/08   | 10:35                                     |
| control adj access US-PGPUB  | ,, 00, 00   |   |
| 1 1 1  | 3/08/20   | 14:20                                     |
|  | 3/08/18   |   |
|  | 3/08/18   |   |
|  | 3/08/18   | 16:51                                     |
|  | 3/08/19   | 09:22                                     |
| US-PGPUB US-PGPUB  |   |   |
|  | 3/08/19   | 09:26                                     |
| one-time US-PGPUB  | •   |   |
|  | 3/08/19   | 09:29                                     |
| adj password US-PGPUB  |   |   |
|  | 3/08/19   | 09:29                                     |
| adj password and key US-PGPUB  |   |   |
|  | 3/08/19   | 09:36                                     |
| adj password same key US-PGPUB   | '   | -   |
|  | 3/08/19   | 09:39                                     |
| password US-PGPUB  |   | ,   |
|  | 3/08/19   | 09:49                                     |
| password and stored adj file US-PGPUB  |   |   |
|  | 3/08/19   | 09:40                                     |
| - 724 @ad<19991220 and virtual adj private adj USPAT; 2003   | 3/08/19   | 09:48                                     |
| network US-PGPUB   |   |   |
| - 34 @ad<19991220 and virtual adj private adj USPAT; 2003  | 3/08/19   | 09:48                                     |
| network and one-time US-PGPUB  |   |   |
| - 5 @ad<19991220 and encrypt with key with USPAT; 2003   | 3/08/19   | 09:54                                     |
| password and passport US-PGPUB   |   |   |
|  | 3/08/19 (   | 09:57                                     |
| password and passport US-PGPUB   |   |   |
| - 10   single adj (machine computer) same login   USPAT;   2003  | 3/08/20   | 16:14                                     |
| US-PGPUB   |   |   |
| - 92 ad<19991230 and passport same web\$ USPAT; 2003   | 3/08/19 (   | 09:59                                     |
| US-PGPUB   |   | 1   |
| - 94 @ad<19991220 and 713/\$.ccls. and cookie USPAT; 2003  | 3/08/20 (   | 09:54                                     |
| US-PGPUB   |   |   |

| -   | 20       | @ad<19991220 and 713/\$.ccls. and cookie   | USPAT;    | 2003/08/20 12:5   | 9]  |
|-----|----------|--|-----------|-------------------|-----|
|     |          | and (machine same identif\$)   | US-PGPUB  |                   |     |
| -   | 3        | baransky.inv.  | USPAT;    | 2003/08/20 10:1   | 2   |
|     |          | <u>-</u>   | US-PGPUB  |                   | - 1 |
| -   | 16       | franke.inv. and ibm  | USPAT;    | 2003/08/20 10:1   | 3 I |
|     |          |  | US-PGPUB  |                   | ٦   |
| _   | 15       | pattnaik.inv.  | USPAT;    | 2003/08/20 10:1   | ا ۵ |
| -   | 13       | pacchark.inv.  | US-PGPUB  | 2003/00/20 10:1   | ٦   |
|     | 7,       |  | 1         | 2002/00/20 10:1   | ا ؞ |
| -   | 71       | safford.inv.   | USPAT;    | 2003/08/20 10:1   | 4   |
|     |          |  | US-PGPUB  | 0000 (00 (00 10 1 | ا ۔ |
| -   | 22       | safford.inv. and (ibm international)   | USPAT;    | 2003/08/20 10:1   | ן כ |
|     |          |  | US-PGPUB  |                   | ا ۔ |
| -   | 26       | wisniewski.inv. and (ibm international)  | USPAT;    | 2003/08/20 10:1   | 6   |
|     |          |  | US-PGPUB  |                   |     |
| -   | 0        | 6510513.URPN.  | USPAT     | 2003/08/20 10:5   | 0   |
| -   | 46       | 5875296.URPN.  | USPAT     | 2003/08/20 10:5   | 1   |
| -   | 46       | 5875296.URPN.  | USPAT     | 2003/08/20 10:5   | 1   |
| -   | 46       | 5875296.URPN.  | USPAT     | 2003/08/20 10:5   | 1   |
| -   | 19       | @ad<19991220 and (vpn virtual adj private  | USPAT;    | 2003/08/20 11:1   | ا و |
|     |          | adj network) and cookie and (machine same  | US-PGPUB  |                   | ·   |
|     |          | identif\$)   |           |                   | 1   |
| _   | 324      | @ad<19991220 and 713/193.ccls.   | USPAT;    | 2003/08/20 11:2   | ا ر |
|     | 524      |  | US-PGPUB  | -300,00,20 11.2   | -   |
| 1_  | 0        | 6421768.URPN.  | USPAT     | 2003/08/20 11:4   | ا ۾ |
| 1_  |          | 6421768.URPN.  | USPAT     | 2003/08/20 11:4   |     |
| 1 _ |          | 6421768.URPN.  |           | 2003/08/20 11:4   |     |
|     | 1        | · · · · · · · · · · · · · · · · · · ·  | USPAT     | 1                 |     |
| 1 - | 0        | 6421768.URPN.  | USPAT     | 2003/08/20 11:4   |     |
| -   | 0        | 6421768.URPN.  | USPAT     | 2003/08/20 11:4   |     |
| -   | 0        | 6421768.URPN.  | USPAT     | 2003/08/20 11:4   |     |
| -   | 1        | "6092196".PN.  | USPAT     | 2003/08/20 11:4   |     |
| -   | 1        | "6092196".PN.  | USPAT     | 2003/08/20 12:4   |     |
| -   | 1        | "6073241".PN.  | USPAT     | 2003/08/20 12:4   |     |
| -   | 1        | "6061790".PN.  | USPAT     | 2003/08/20 12:5   | 6   |
| -   | 9        | 713/202.ccls. and 713/193.ccls.  | USPAT;    | 2003/08/20 12:5   | 9   |
|     |          |  | US-PGPUB  |                   | - 1 |
| -   | 20       | @ad<19991220 and 713/\$.ccls. and cookie   | USPAT;    | 2003/08/20 14:2   | 2   |
|     |          | and (machine same identif\$)   | US-PGPUB; |                   |     |
|     |          |  | EPO; JPO; |                   | - 1 |
|     |          |  | DERWENT;  |                   | - [ |
|     |          |  | IBM TDB   | ]                 |     |
| -   | 128      | @ad<19991220 and 713/\$.ccls. and password   | USPAT;    | 2003/08/20 13:4   | οĺ  |
|     |          | with key and (machine same identif\$)  | US-PGPUB; | ]                 |     |
|     |          | ,  | EPO; JPO; | ]                 |     |
| 1   |          |  | DERWENT;  |                   |     |
| 1   |          |  | IBM TDB   |                   |     |
| _   | 20       | @ad<19991220 and 713/\$.ccls. and password   | USPAT;    | 2003/08/20 13:4   | 4 l |
|     |          | with key same (machine same identif\$)   | US-PGPUB; | -233, 33, 23 23.3 | _   |
|     |          | The state of the s | EPO; JPO; |                   |     |
|     |          |  | DERWENT;  |                   |     |
| 1   |          |  | IBM TDB   |                   |     |
| I _ | 3        | <br> @ad<19991220 and 713/\$.ccls. and cookie  | USPAT;    | 2003/08/20 13:4   | ے ا |
| -   |          |  |           | 2003/00/20 13:4   | ۱ ۲ |
|     |          | with key and (machine same identif\$)  | US-PGPUB; |                   |     |
|     |          |  | EPO; JPO; |                   | ł   |
| 1   |          |  | DERWENT;  |                   |     |
|     | _        | 0-4(10001000   | IBM_TDB   | 2002/00/02 2: 2   | ٫ ا |
| -   | 5        | @ad<19991220 and one-time with login   | USPAT;    | 2003/08/20 14:2   | ك   |
|     |          |  | US-PGPUB; |                   |     |
|     |          |  | EPO; JPO; |                   |     |
|     | 1        |  | DERWENT;  |                   | - 1 |
|     | _        | 0.1,10001000   | IBM_TDB   | 0000/00/00        | ا ۲ |
| I - | 0        | @ad<19991220 and 713/\$.ccls. and one-time   | USPAT;    | 2003/08/20 14:3   | 2   |
|     |          | with handshake   | US-PGPUB  |                   | _   |
| -   | 1        | @ad<19991220 and 713/\$.ccls. and one adj  | USPAT;    | 2003/08/20 14:3   | 2   |
|     |          | time with handshake  | US-PGPUB  |                   |     |
| -   | 50       |  | USPAT;    | 2003/08/20 15:3   | 9   |
|     |          | same key   | US-PGPUB  |                   |     |
| -   | 56       | @ad<19991220 and cookie and password with  | USPAT;    | 2003/08/20 16:0   | 8   |
|     |          | key  | US-PGPUB  |                   | ١   |
| -   | 831      | one with time with authentication  | USPAT;    | 2003/08/20 16:1   | 4   |
| 1   |          |  | US-PGPUB  |                   | - [ |
| -   | 447      | one with time with authentication and web  | USPAT;    | 2003/08/20 16:1   | 5   |
| L   | <u> </u> |  | US-PGPUB  |                   |     |
|     |          |  |           |                   |     |

| -        | 643 | (one with time with authentication) and   | USPAT;    | 2003/08/20 16:15 |
|----------|-----|---|-----------|------------------|
| İ        |     | encrypt\$4                                | US-PGPUB  |                  |
| -        | 502 | ((one with time with authentication) and  | USPAT;    | 2003/08/20 16:15 |
|          |     | encrypt\$4) and password                  | US-PGPUB  |                  |
| -        | 67  | (((one with time with authentication) and | USPAT;    | 2003/08/20 16:19 |
|          | į.  | encrypt\$4) and password) and cookie      | US-PGPUB  |                  |
| -        | 0   | prevents with distributing with password  | USPAT;    | 2003/08/20 16:20 |
|          |     | and machine with identification           | US-PGPUB  |                  |
| -        | 124 | @ad<19991220 and "one-time password"      | USPAT;    | 2003/08/26 08:08 |
|          |     |   | US-PGPUB; |                  |
|          |     |   | EPO; JPO; |                  |
|          |     |   | DERWENT;  | 1                |
|          |     |   | IBM_TDB   |                  |
| <b>'</b> | 66  | wiser.inv.                                | USPAT;    | 2003/08/26 09:21 |
|          |     |   | US-PGPUB  |                  |